

What is claimed is:
SUB A3 \ 1. A method for sizing a database management system, the method
2 comprising the steps of:
providing one or more percent hardware utilization limits;
obtaining throughput workload requirements; and
5 calculating the hardware resources needed to satisfy the workload
6 requirements while remaining within the percent hardware utilization limits.
2. A method as recited in claim 1, the method further comprising the
2 steps of:
accepting user entered changes to the percent hardware utilization limits;
recalculating the required hardware resources in order to remain within
said percent hardware utilization limits; and
outputting the required hardware resources to the human user in a format to
7 advise the human user.
3. A method as recited in claim 1, the method further comprising the
2 steps of:
obtaining database requirements; and
calculating the hardware resources needed to satisfy the database requirements
while remaining within the percent hardware utilization limits.
A method as recited in claim 4, the method further comprising the
steps of: accepting user entered changes to the percent hardware utilization limits;
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recalculating the required hardware resources in order to remain within 1 said percent hardware utilization limits; and 2 outputting the required hardware resources to the human user in a format to 3 advise the human user. 4 A method as recited in claim 4, wherein the throughput workload SUB A4 5. requirement includes a transactions per second requirement. 3 method as recited in claim 5, wherein the calculating and 6. 4 recalculating steps include calculating the hardware resources needed as a function of 5 the transactions per second. 6 A method as recited in claim 4, wherein said hardware resource 7. 1 requirements include a number of processors. 2 A method as recited in claim 7, wherein said calculating and 8. 1 recalculating steps include calculating said number of processors as a function of the 2 transactions per second. 3 A method as recited in claim 4 wherein the percent hardware 9. 1 utilization limits include percent processor utilization and said accepting step includes 2

accepting changes to said processor utilization and said calculation and recalculation

steps includes calculating said hardware requirements within said processor utilization

limits and include changing said number of processors required when necessary to

remain within said processor utilization limits.

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- A method as recited in claim 9, wherein said processor utilization 10. 1 limits include upper utilization limits to prevent over utilizing said processors and said 2 calculating and recalculating steps include calculating said number of processors 3 needed keeping below said upper limit to prevent over utilization of said processors. 4
- A method as recited in claim 10, wherein said processor utilization 11. 1 limits include lower utilization limits to prevent under utilizing said processors. 2
- A method as recited in claim 11, wherein said calculating and 12. 1 recalculating steps include calculating said number of processors needed keeping 2 above said lower limit to prevent under utilization of said processors. 3
- A method as recited in claim 10, wherein said percent hardware 13. utilization limits include percent hetwork interface card utilization and said calculating and recalculating steps include calculating said hardware requirements within said network interface card utilization limits and include changing said number of network interface cards required when necessary to remain within said network interface card utilization limits. 6
- A method as recited in claim 13, wherein said network interface card 14. 1 utilization limits include lower utilization limits to prevent under utilizing said 2 network interface cards and said calculating and recalculating steps include 3 calculating said number of network interface cards needed keeping above said lower 4 limit to prevent under utilization of said network interface cards. 5

1	\ 15. A method as recited in claim 14, wherein said network interface card
2	utilization limits include upper utilization limits to prevent over utilizing said network
3	interface cards and said calculating and recalculating steps include calculating said
4	number of network interface cards needed keeping below said upper limit to prevent
5	over utilization of said network interface cards.
1	16. A computerized method for calculating hardware requirements for a
2	database management system computer comprising the steps of:
3	establishing default values for hardware utilization limits;
4	initializing said hardware utilization limits to said default values;
5	obtaining a workload requirement from said human user; and
6	calculating said hardware requirements as a function of said workload
7	requirement while remaining within said hardware utilization limits.
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1	17. A computerized method as recited in claim 16, the method further
2	comprising the steps of:
3	obtaining new hardware utilization limits from said human user;
4	recalculating said hardware requirements while remaining within said
5	hardware utilization limits; and
6	displaying hardware requirements in a format to advice the user of the
7	required hardware for the user entered workload.
1	18. A computerized as recited in claim 17, wherein said hardware
2	requirements include discrete numbers of hardware components.

1 9. A computerized method as recited in claim 18, wherein and said

- 2 calculating and recalculating steps include calculating said number of hardware
- 3 components.

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